

PATENT COOPERATION TREATY

From the
INTERNATIONAL SEARCHING AUTHORITY

To:

TRANSLATION
PCTWRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43bis.1)

Date of mailing
(day/month/year)

Applicant's or agent's file reference

H2346-01

FOR FURTHER ACTION

See paragraph 2 below

International application No.

PCT/JP2005/006466

International filing date (day/month/year)

01.04.2005

Priority date (day/month/year)

08.04.2004

International Patent Classification (IPC) or both national classification and IPC

Applicant

MATSUSHITA TOSHIBA PICTURE DISPLAY CO., LTD.

1. This opinion contains indications relating to the following items:

- ☒ Box No. I Basis of the opinion
- ☐ Box No. II Priority
- ☐ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- ☐ Box No. IV Lack of unity of invention
- ☒ Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- ☐ Box No. VI Certain documents cited
- ☐ Box No. VII Certain defects in the international application
- ☐ Box No. VIII Certain observations on the international application

2. FURTHER ACTION

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

3. For further details, see notes to Form PCT/ISA/220.

Name and mailing address of the ISA/JP

Authorized officer

Facsimile No.

Telephone No.

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/JP2005/006466

Box No. I Basis of this opinion

1. With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ This opinion has been established on the basis of a translation from the original language into the following language _____, which is the language of a translation furnished for the purposes of international search (under Rule 12.3 and 23.1(b)).

2. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:

a. type of material

☐ a sequence listing

☐ table(s) related to the sequence listing

b. format of material

☐ in written format

☐ in computer readable form

c. time of filing/furnishing

☐ contained in the international application as filed.

☐ filed together with the international application in computer readable form.

☐ furnished subsequently to this Authority for the purposes of search.

3. ☐ In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.

4. Additional comments:

**WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY**

International application No.

PCT/JP2005/006466

Box No. V

Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Claims 3-5

YES

Claims 1-2

NO

Inventive step (IS)

Claims

YES

Claims 1-5

NO

Industrial applicability (IA)

Claims

1-5

YES

Claims

NO

2. Citations and explanations:

Document 1: JP, 2002-299044, A (Sanyo Electric Co., Ltd.), 11 October, 2002 (11.10.02), the claims 1, 3 and 4, paragraphs [0038], [0039], [0041] and [0042], Fig. 1.

Document 2: JP, 2001-91726, A (Fuji Electric Co., Ltd.), 6 April, 2001 (06.04.01), Fig. 1

Document 3: JP, 9-245511, A (Idemitsu Kosan Co., Ltd.), 19 September, 1997 (19.09.97), page 16, lines 25-30, Fig. 2

Claim 1

Document 1 (paragraph [0038] and Fig. 1) describes an electroluminescent display device where, by disposing a light-shielding wall 70 having a reflective layer 72 on its side surface between color-filter layers for colors, the portion of light passing through a second electrode 42 formed on a light-emitting layer 34 and emitted out that goes to the said side surface of the said light-shielding wall is not absorbed but reflected by that side surface, and the said portion of light is emitted out from a transparent sealing member 200 as light from the pixel region, to enhance the efficiency of use of light emitted out of the light-emitting layer.

In addition, according to Fig. 1 in the above-mentioned document, the said side having a reflective function is formed in contact with the second electrode.

Accordingly, the subject matter of the above claim does not appear to be novel or to involve an inventive step in view of document 1.

Claim 2

Document 1 (claim 3 and paragraph [0039]) describes a feature wherein a black layer is formed on a surface 74 opposite a transparent substrate 80 of a light-shielding wall to improve the contrast.

Accordingly, the subject matter of the above claim does not appear to be novel or to involve an inventive step in view of the above-mentioned description in document 1.

Claims 3 and 4

A person skilled in the art could have easily selected aluminum or silver as a material for a reflective layer, and decided the film-thickness of a reflective layer according to the material.

Claim 5

Document 1 (paragraph [0041]) mentions that, apart from a color-filter layer, a color-conversion filter that converts incident light to light with a desired wavelength may be adopted as a color element 82.

As described in the above-mentioned parts of documents 2 and 3, a color-filter layer layered on a color-conversion layer is a commonly used technology in a color electroluminescent element of a color-conversion system.

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International application No.

PCT/JP2005/006466

Box No. V

Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability;
citations and explanations supporting such statement

Accordingly, the subject matter of the above claim is merely an application of commonly-used technology to the invention described in document 1, and the effect is not beyond expectation. Accordingly, the said subject matter does not appear to involve an inventive step.